

# **Exhibit H Testimony Dr. Palle Pedersen**

**Effect of Flooding on Livestock Industry Study Committee  
November 19, 2008**

**Palle Pedersen**

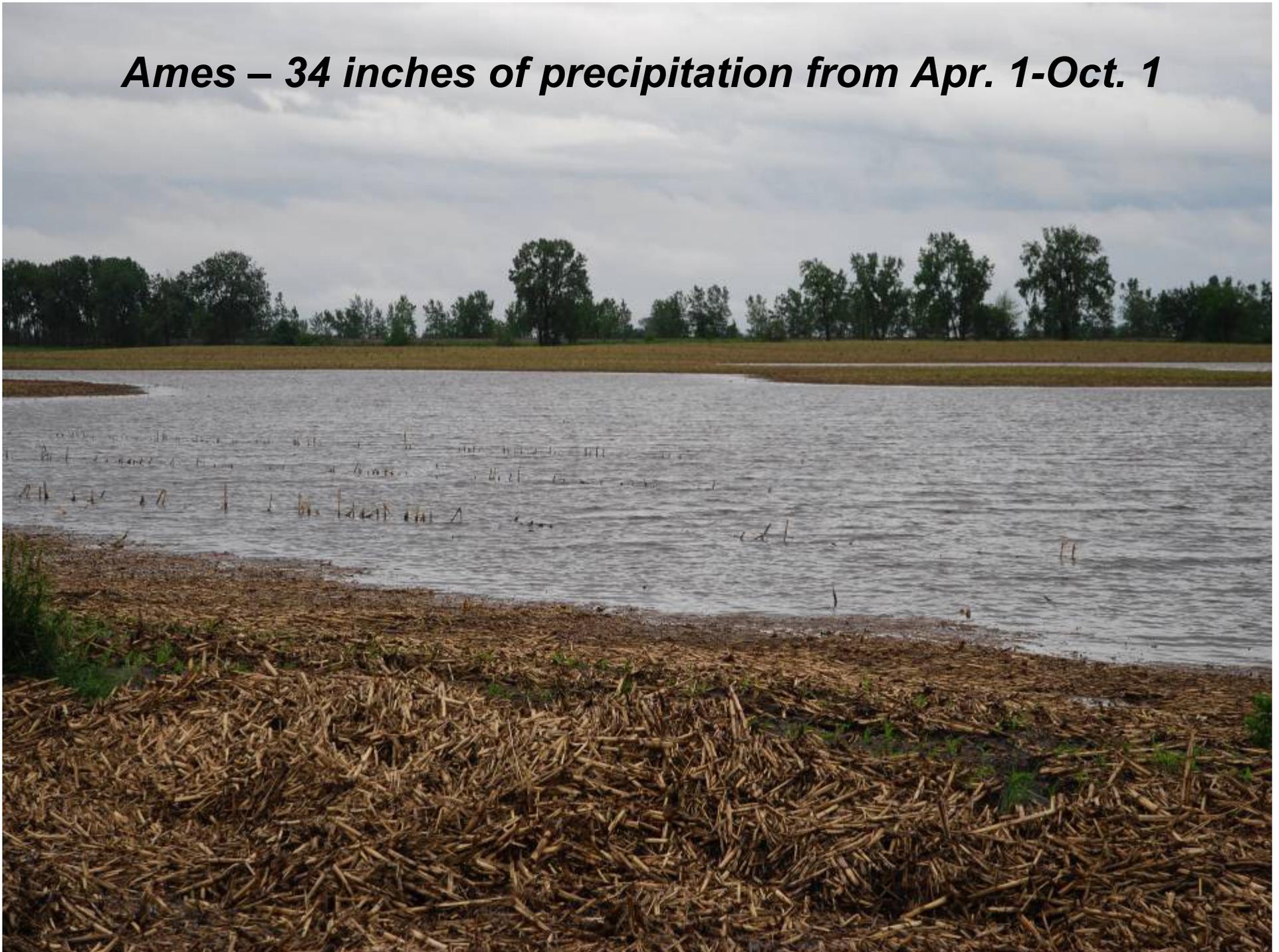
**Assistant Professor  
Soybean Extension Agronomist  
Iowa State University**

# Green County, 2008

Photo Courtesy: Sheila Hebenstreit, Jefferson, IA



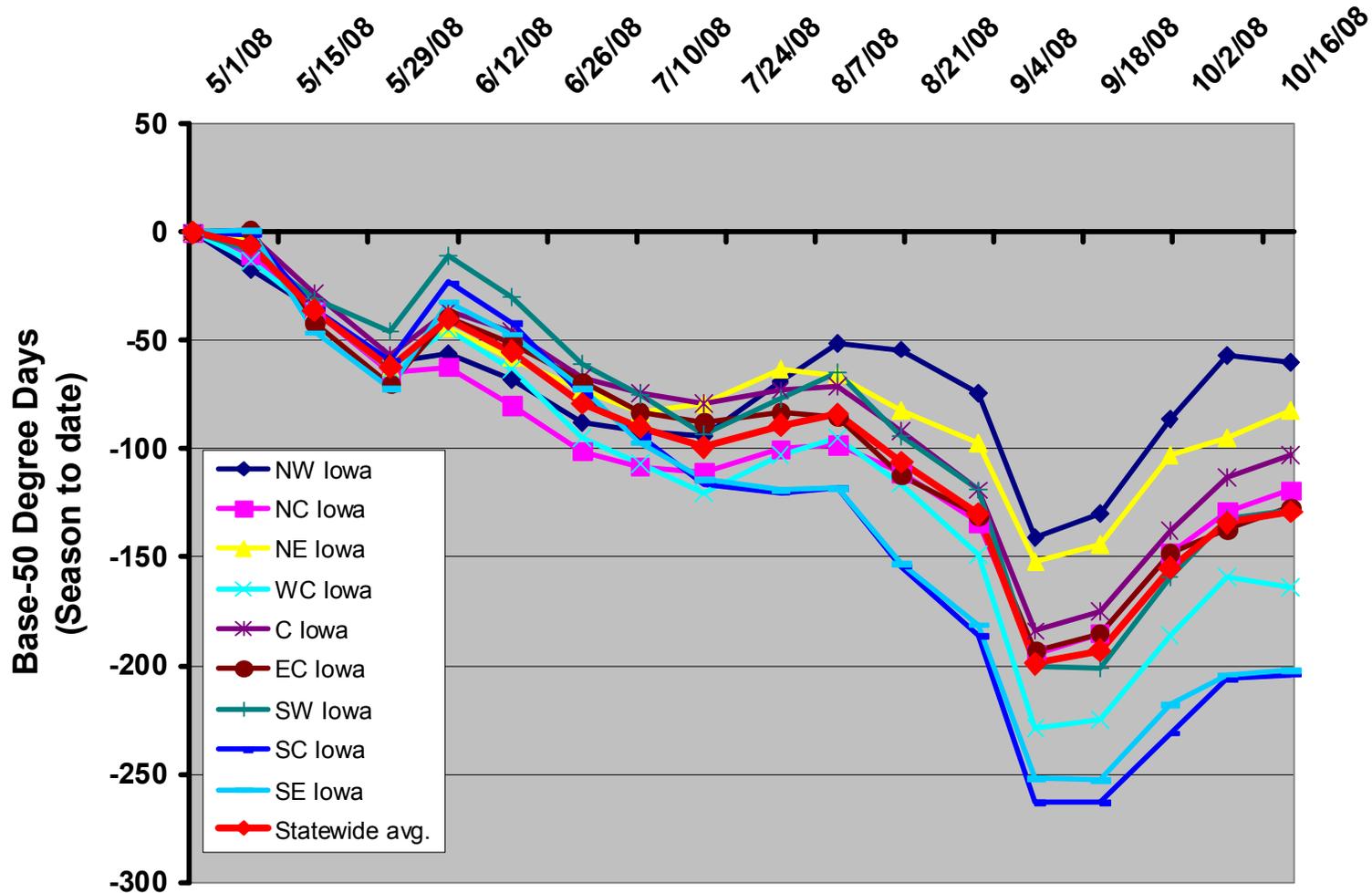
***Ames – 34 inches of precipitation from Apr. 1-Oct. 1***



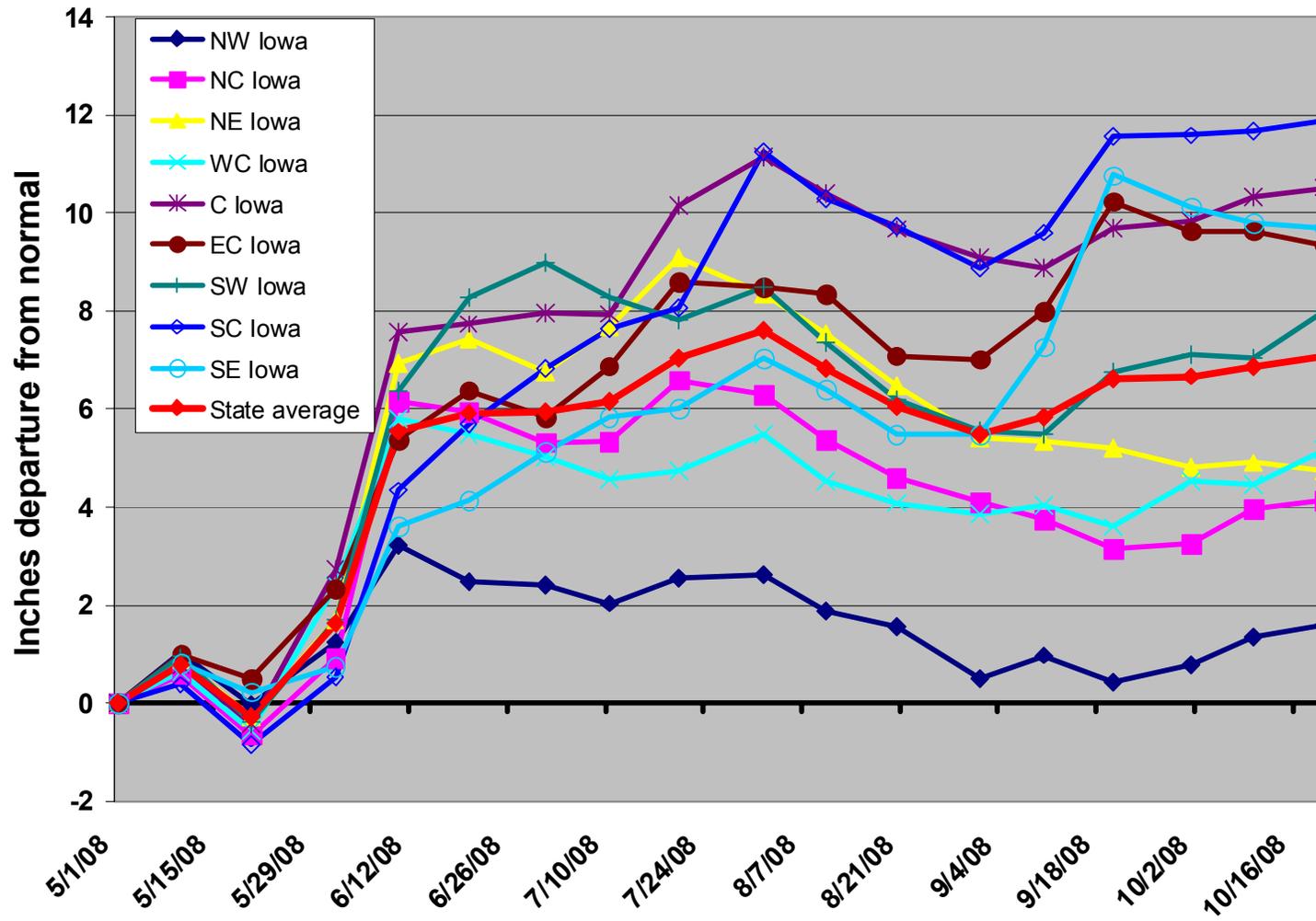
***Research data from 2008 were very variable***



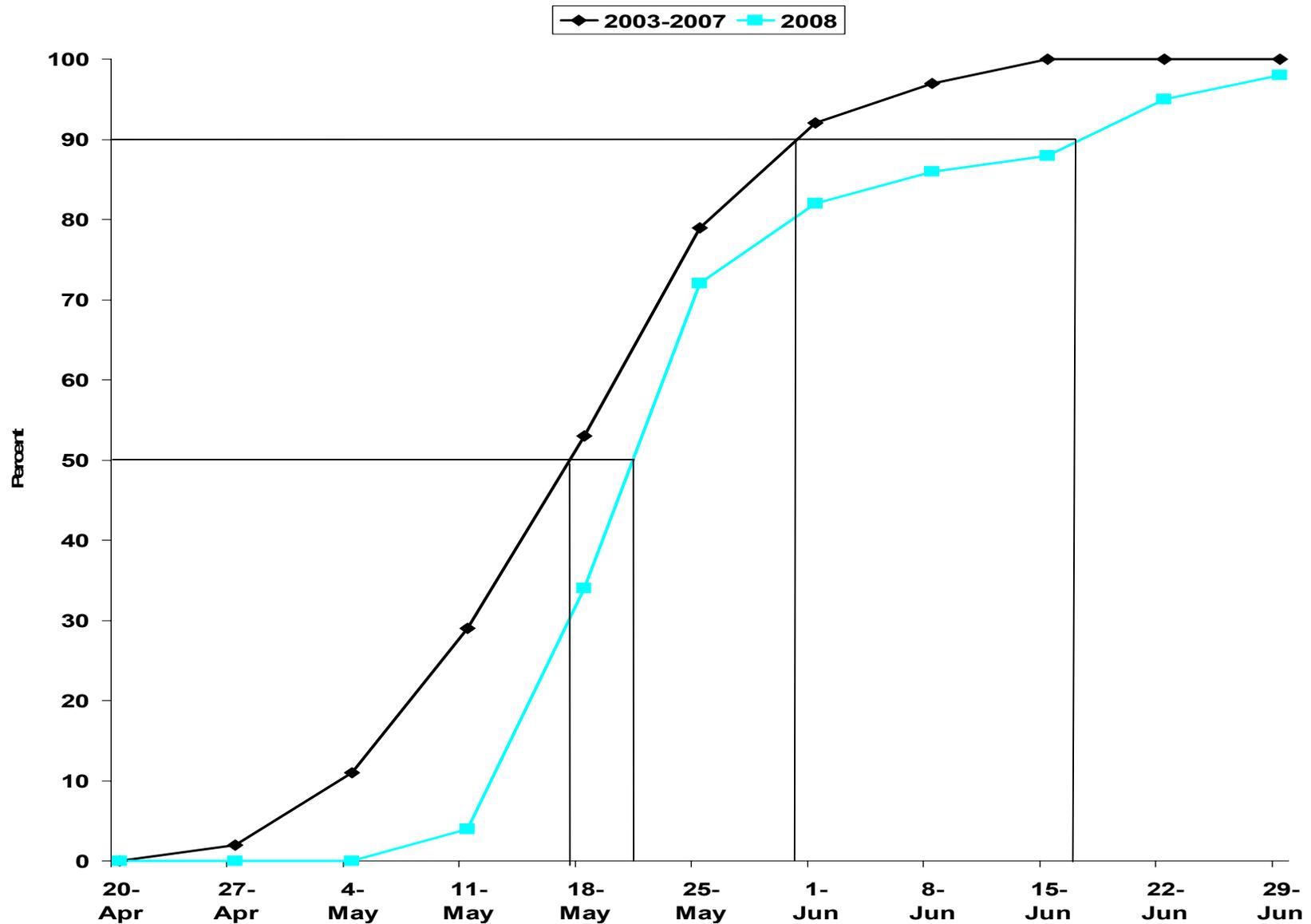
# 2008 Degree Day (base 50F) Departure from Normal



# 2008 Rainfall Departure from Normal



# 2008 Soybean Planting Progress in Iowa



# Planting Date Response in IA

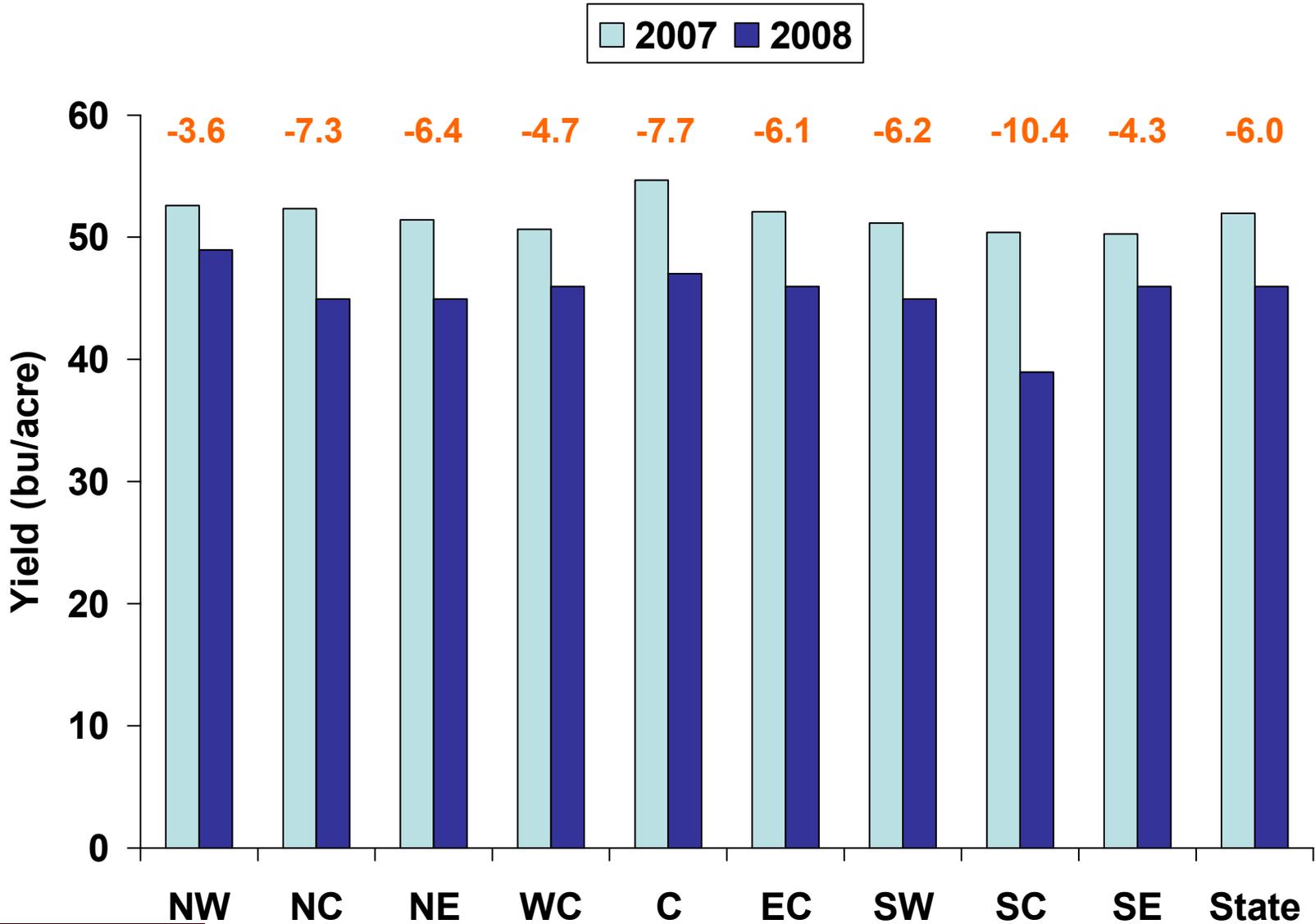
- **There is a 84% probability that early planting (late April/early May) will yield greater than late planting (early June) averaged across 32 experiments since 2003!**



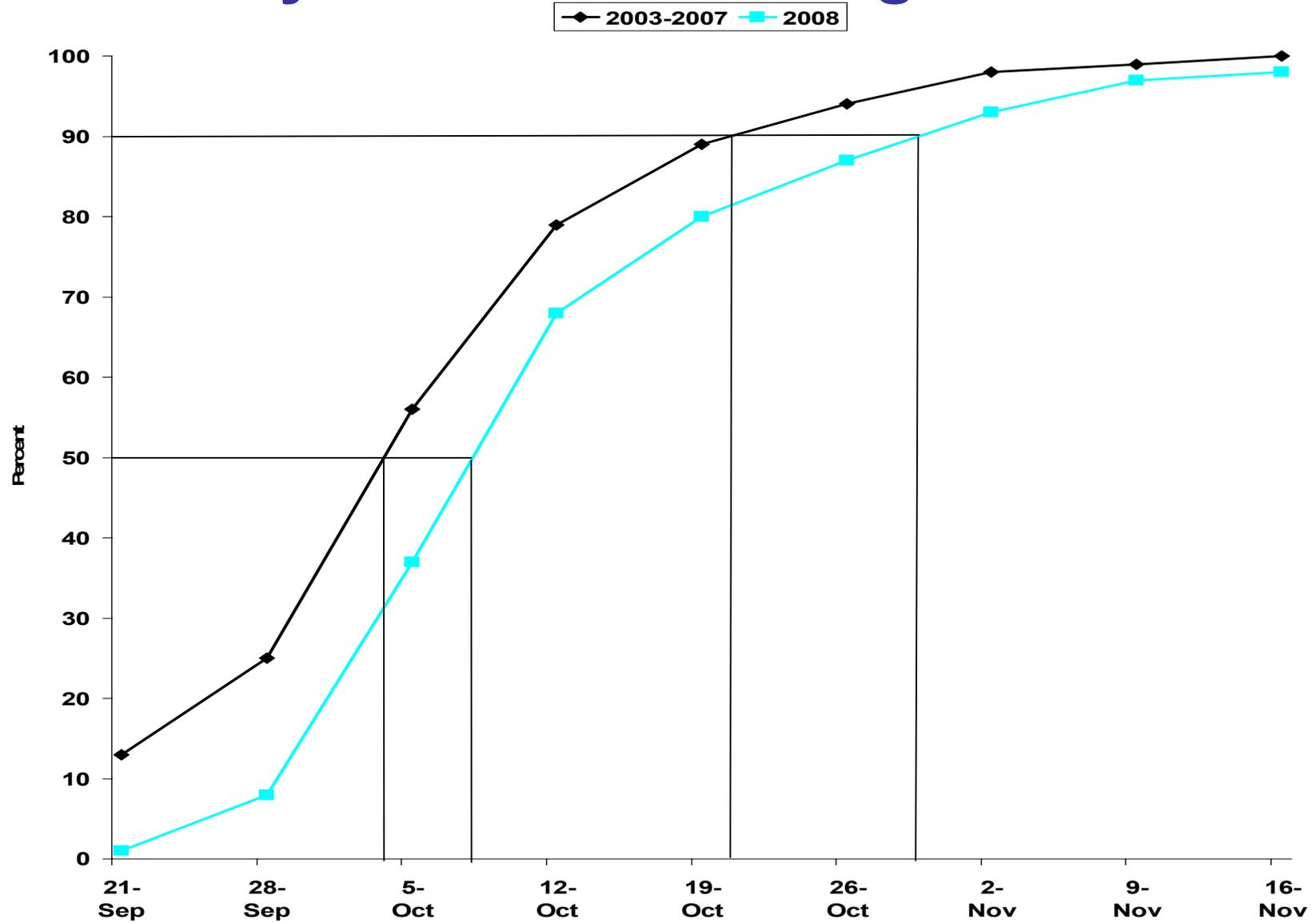
# Effect of Planting Date on Soybean Yield in Iowa (1995-1997)

Planting Date	Northern IA	Central IA	Southern IA
	Relative yield (percent of potential)		
Late April	100*	96*	98*
Early May	96*	100*	100*
Mid-May	99*	96*	68*
Early June	81	93	89
Mid-June	61	59	82
Early July	33	45	47

# Iowa Soybean Yield (2007-2008)



# 2008 Soybean Harvest Progress in Iowa



# IA Soybean Production Stats

- **Area harvest**
  - 2007 = 8.6 million acres
  - 2008 = 9.6 million acres
- **Yield**
  - 2007 = 52.0 bu/acre
  - 2008 = 46.0 bu/acre
- **Production**
  - 2007 = 448 million bu
  - 2008 = 442 million bu

# US Soybean Production Stats

- **Area harvest**
  - 2007 = 64.1 million acres
  - 2008 = 74.3 million acres
- **Yield**
  - 2007 = 41.7 bu/acre
  - 2008 = 39.5 bu/acre
- **Production**
  - 2007 = 2,676 million bu
  - 2008 = 2,921 million bu

# Summary: Soybean in Iowa 2008

- **Late planting**
- **Cool and wet growing conditions**
- **Higher yield than expected**
  - Continued to rain in July
  - Cool temperatures helped delay flowering
  - September saved the 25% of the acres that was planted after June 15
- **Not an early freeze this year!**
- **Grain composition seems to be fairly good with a higher oil and protein content than expected**



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